World Development Indicators (2022): Exploratory Analysis

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2025-02-26

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Exploratory Analysis

Jacky An | February 26, 2025

Introduction

- This presentation analyzes the **World Development Indicators (WDI) dataset (2022)**.
- Focus on key indicators:
  - **GDP per capita**
  - **Inflation rate**
  - **Exports as a share of GDP**
- Objective: Explore relationships & trends in global economic data.

Dataset Overview

```
import pandas as pd

df = pd.read_csv("wdi.csv")
df.head()
```

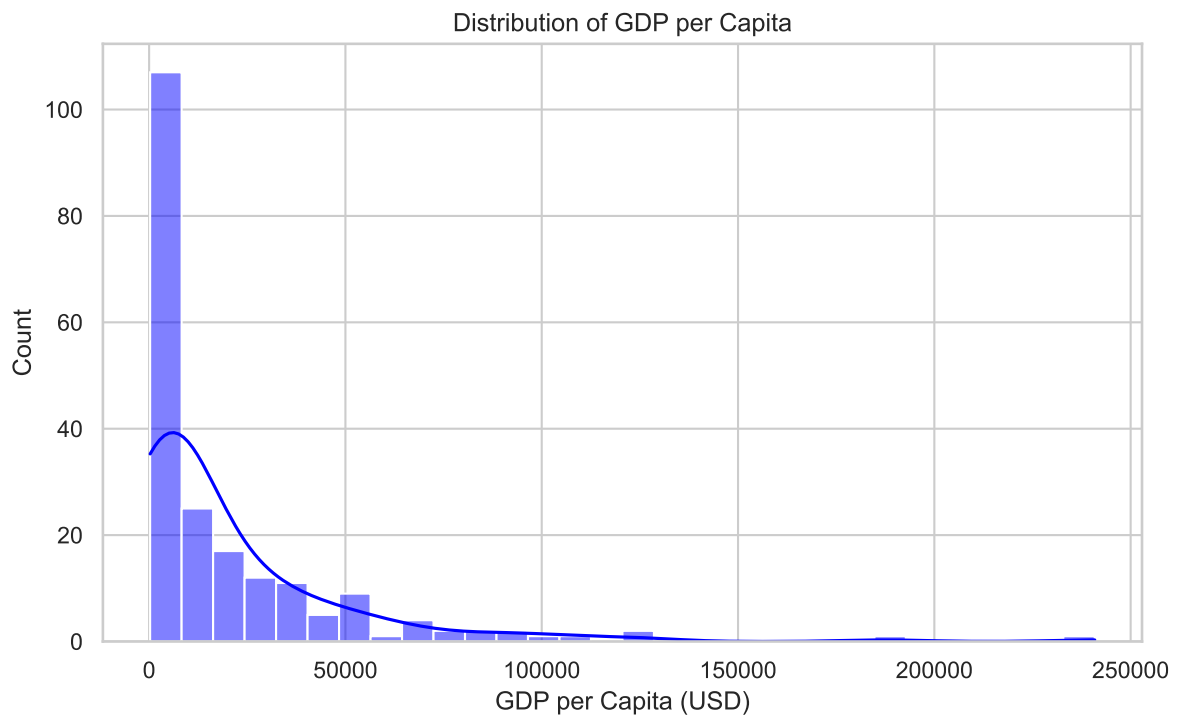|	country	inflation_rate	exports_gdp_share	gdp_growth_rate	gdp_per_capita	adult_lite
0	Afghanistan	NaN	18.380042	-6.240172	352.603733	NaN
1	Albania	6.725203	37.395422	4.856402	6810.114041	98.5
2	Algeria	9.265516	31.446856	3.600000	5023.252932	NaN
3	American Samoa	NaN	46.957520	1.735016	19673.390102	NaN
4	Andorra	NaN	NaN	9.563798	42350.697069	NaN

GDP per Capita Distribution

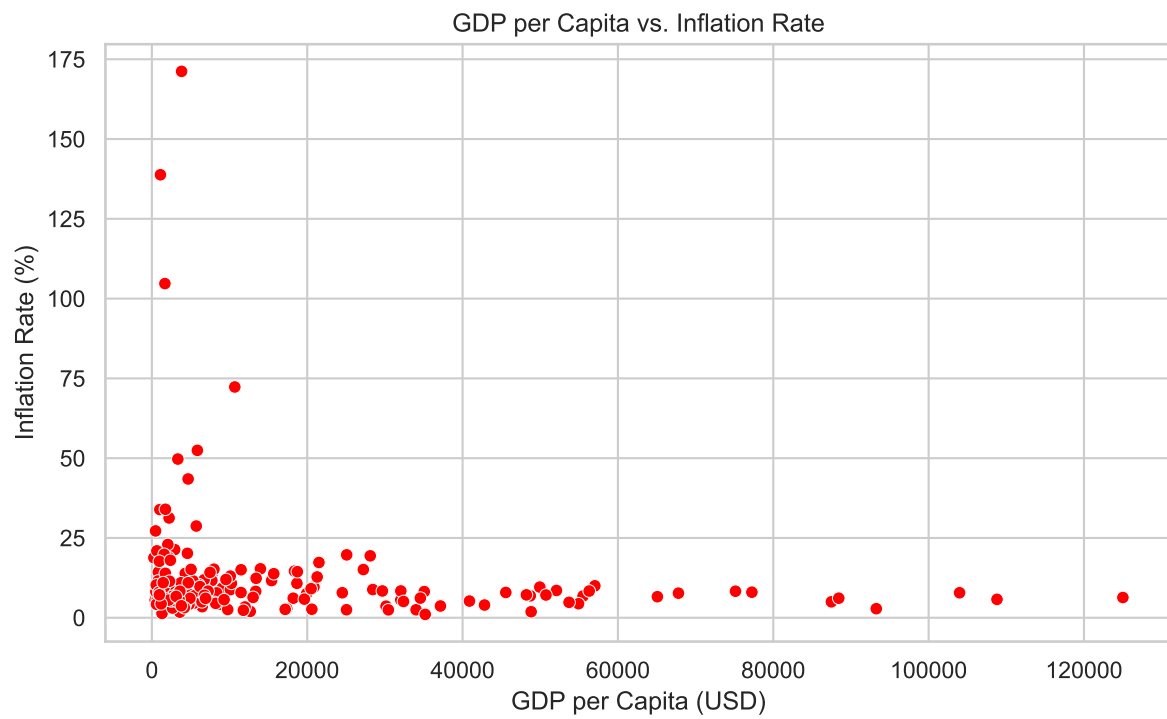Figure 1: GDP per capita distribution (2022).
```

Figure 2: Relationship between GDP per Capita and Inflation Rate.

**Inflation vs GDP per Capita**

**Key Statistics Table**

| Indicator | Mean | Std Dev |
|---|---|---|
| GDP per Capita | 20345.71 | 31308.94 |
| Inflation Rate | 12.49 | 19.68 |
| Exports % of GDP | 46.17 | 34.0 |

**Conclusion**

Our analysis of World Development Indicators (2022) reveals key insights into global economic and social trends. GDP per capita shows significant variation across countries, with higher-income nations exhibiting stronger economic performance. Life expectancy tends to increase with GDP per capita, suggesting a positive relationship between economic prosperity and public health. Unemployment rates vary widely, influenced by economic conditions, policies, and regional factors. These findings highlight the importance of economic growth, education, and healthcare investment in shaping development outcomes. Future research could explore regional trends, policy impacts, and long-term economic shifts to better understand development patterns.